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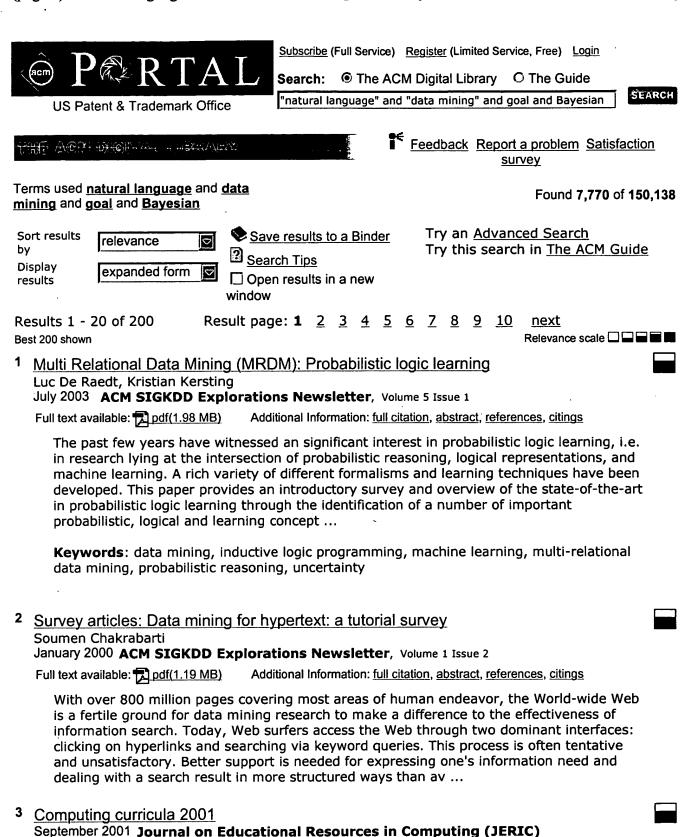
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The KDD process for extracting useful knowledge from volumes of data

Additional Information: full citation, references, citings, index terms

Full text available: pdf(613.63 KB)

1 html(2.78 KB)

Usama Fayyad, Gregory Piatetsky-Shapiro, Padhraic Smyth November 1996 **Communications of the ACM**, Volume 39 Issue 11

Full text available: pdf(523.49 KB) Additional Information: full citation, references, citings, index terms

5 <u>Industrial/government track: Clinical and financial outcomes analysis with existing</u> hospital patient records



R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(188.40 KB) Additional Information: full citation, abstract, references, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

**Keywords**: Bayes Nets, HMMs, data mining, temporal reasoning

6 KM-1 (knowledge management): clustering I: Goal-oriented methods and meta methods for document classification and their parameter tuning

Stefan Siersdorfer, Sergej Sizov, Gerhard Weikum

November 2004 Proceedings of the Thirteenth ACM conference on Information as



November 2004 Proceedings of the Thirteenth ACM conference on Information and knowledge management

Full text available: pdf(228.34 KB) Additional Information: full citation, abstract, references, index terms

Automatic text classification methods come with various calibration parameters such as thresholds for probabilities in Bayesian classifiers or for hyperplane distances in SVM classifiers. In a given application context these parameters should be set so as to meet the relative importance of various result quality metrics such as precision versus recall. In this paper we consider classifiers that can accept a document for a topic, reject it, or abstain. We aim to meet the application's goals in ...

Keywords: meta classification, restrictive classification

7 Panel and workshop reports from KDD-2003: Multirelational data mining 2003:



workshop report

Saso Dzeroski, Luc De Raedt, Stefan Wrobel

December 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 2

Full text available: pdf(45.28 KB) Additional Information: full citation, abstract

In this report, we briefly review the second International Workshop on Multi-Relational Data Mining (MRDM-03), which was organized by the authors and held in Washington, D.C. on August 27th, 2003 as part of the workshop program of the ninth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD-03). the goal of the workshop was to bring together researchers and practitioners of Data Mining and interested in methods and applications of finding patterns in expressive langu ...

Keywords: multi-relation learning and data mining

8	<b>Textual</b>	data	mining	of	service	center	call	records

Pang-Ning Tan, Hannah Blau, Steve Harp, Robert Goldman

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(178.04 KB) Additional Information: full citation, references, index terms

9 <u>Multi Relational Data Mining (MRDM): Biological applications of multi-relational data</u> mining



David Page, Mark Craven

July 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 1

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings

Biological databases contain a wide variety of data types, often with rich relational structure. Consequently multi-relational data mining techniques frequently are applied to biological data. This paper presents several applications of multi-relational data mining to biological data, taking care to cover a broad range of multi-relational data mining techniques.

10 Strategic directions in artificial intelligence

Jon Doyle, Thomas Dean

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4

Full text available: pdf(243.02 KB) Additional Information: full citation, references, index terms

11 Special issue on the fusion of domain knowledge with data for decision support: Fusion of domain knowledge with data for structural learning in object oriented domains

Helge Langseth, Thomas D. Nielsen



Full text available: pdf(227.18 KB) Additional Information: full citation, abstract, references, index terms

When constructing a Bayesian network, it can be advantageous to employ structural learning algorithms to combine knowledge captured in databases with prior information provided by domain experts. Unfortunately, conventional learning algorithms do not easily incorporate prior information, if this information is too vague to be encoded as properties that are local to families of variables. For instance, conventional algorithms do not exploit prior information about repetitive structures, which are ...

12 Bioinformatics—an introduction for computer scientists



June 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 2

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

**Keywords**: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

13 <u>Special issue on on inductive logic programming: Ilp: a short look back and a longer look forward</u>



David Page, Ashwin Srinivasan

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(103.21 KB) Additional Information: full citation, abstract, references, index terms

Inductive logic programming (ILP) is built on a foundation laid by research in machine learning and computational logic. Armed with this strong foundation, ILP has been applied to important and interesting problems in the life sciences, engineering and the arts. This paper begins by briefly reviewing some example applications, in order to illustrate the benefits of ILP. In turn, the applications have brought into focus the need for more research into specific topics. We enumerate and elaborate f ...

14 <u>Scalable association-based text classification</u>

Dimitris Meretakis, Dimitris Fragoudis, Hongjun Lu, Spiros Likothanassis

November 2000 Proceedings of the ninth international conference on Information and knowledge management

Full text available: pdf(149.74 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: machine learning and IR, statistical/probabilistic models, text categorization, text data mining

15 <u>Technical Papers: Applying natural language processing (NLP) based metadata</u> extraction to automatically acquire user preferences



Woojin Paik, Sibel Yilmazel, Eric Brown, Maryjane Poulin, Stephane Dubon, Christophe Amice October 2001 Proceedings of the international conference on Knowledge capture

Full text available: pdf(210.42 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a metadata extraction technique based on natural language processing (NLP) which extracts personalized information from email communications between financial analysts and their clients. Personalized means connecting users with content in a personally meaningful way to create, grow, and retain online relationships. Personalization often results in the creation of user profiles that store individuals' preferences regarding goods or services offered by various e-commerce merch ...

Keywords: metadata extraction, natural language processing, user preference elicitation

16 <u>Discovering models of software processes from event-based data</u>

Jonathan E. Cook, Alexander L. Wolf

July 1998 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 7 Issue 3

Full text available: pdf(369.76 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

Many software process methods and tools presuppose the existence of a formal model of a process. Unfortunately, developing a formal model for an on-going, complex process can be difficult, costly, and error prone. This presents a practical barrier to the adoption of process technologies, which would be lowered by automated assistance in creating formal models. To this end, we have developed a data analysis technique that we term process discovery. Under this technique, data ...

Keywords: Balboa, process discovery, software process, tools

## 17 Empirical bayes screening for multi-item associations

William DuMouchel, Daryl Pregibon

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

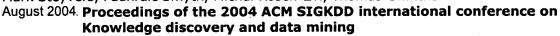
Full text available: pdf(931.67 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper considers the framework of the so-called "market basket problem", in which a database of transactions is mined for the occurrence of unusually frequent item sets. In our case, "unusually frequent" involves estimates of the frequency of each item set divided by a baseline frequency computed as if items occurred independently. The focus is on obtaining reliable estimates of this measure of interestingness for all item sets, even item sets with relatively low frequencies. For example, in ...

**Keywords**: Association rules, Data Mining, Knowledge Discovery, Statistical Models, empirical Bayes methods, gamma-Poisson model, market basket problem, shrinkage estimation

18 Research track papers: Probabilistic author-topic models for information discovery Mark Steyvers, Padhraic Smyth, Michal Rosen-Zvi, Thomas Griffiths



Full text available: pdf(323.72 KB) Additional Information: full citation, abstract, references, index terms

We propose a new unsupervised learning technique for extracting information from large text collections. We model documents as if they were generated by a two-stage stochastic process. Each author is represented by a probability distribution over topics, and each topic is represented as a probability distribution over words for that topic. The words in a multi-author paper are assumed to be the result of a mixture of each authors' topic mixture. The topic-word and author-topic distributions are ...

Keywords: Gibbs sampling, text modeling, unsupervised learning

## 19 Probabilistic query models for transaction data

Dmitry Pavlov, Padhraic Smyth

August 2001 Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(958.33 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We investigate the application of Bayesian networks, Markov random fields, and mixture models to the problem of query answering for transaction data sets. We formulate two versions of the querying problem: the query selectivity estimation (i.e., finding exact counts for tuples in a data set) and the query generalization problem (i.e., computing the probability that a tuple will occur in new data). We show that frequent itemsets are useful for reducing the original data to a compressed representa ...

## 20 An evaluation of statistical spam filtering techniques

Le Zhang, Jingbo Zhu, Tianshun Yao

December 2004 ACM Transactions on Asian Language Information Processing (TALIP),
Volume 3 Issue 4

Full text available: pdf(343.64 KB) Additional Information: full citation, abstract, references, index terms

This paper evaluates five supervised learning methods in the context of statistical spam filtering. We study the impact of different feature pruning methods and feature set sizes on each learner's performance using cost-sensitive measures. It is observed that the significance of feature selection varies greatly from classifier to classifier. In particular, we found support vector machine, AdaBoost, and maximum entropy model are top performers in this evaluation, sharing similar characteristics: ...

Keywords: Spam filtering, text categorization

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21 Bioinformatics (BIO): BioMap: toward the development of a knowledge base of

1 Bioinformatics (BIO): BioMap: toward the development of a knowledge base of biomedical literature

Kamal Kumar, Mathew J. Palakal, Snehasis Mukhopadhyay, Mathew J. Stephens, Huian Li March 2004 **Proceedings of the 2004 ACM symposium on Applied computing** 

Full text available: pdf(212.77 KB) Additional Information: full citation, abstract, references

Biological literature databases continue to grow rapidly with vital information that is important for conducting sound biomedical research. As data and information space continue to grow exponentially, the need for rapidly surveying the published literature, synthesizing, and discovering the embedded "knowledge" is becoming critical to allow the researchers to conduct "informed" work, avoid repetition, and generate new hypotheses. Knowledge, in this case, is defined as one-to-many and many-to-ma ...

Keywords: bioinformatics, data mining, databases, machine learning, text mining

22 Using information scent to model user information needs and actions and the Web Ed H. Chi, Peter Pirolli, Kim Chen, James Pitkow



March 2001 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(278.29 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

On the Web, users typically forage for information by navigating from page to page along Web links. Their surfing patterns or actions are guided by their information needs. Researchers need tools to explore the complex interactions between user needs, user actions, and the structures and contents of the Web. In this paper, we describe two computational methods for understanding the relationship between user needs and user actions. First, for a particular pattern of surfing, we seek to infer ...

**Keywords**: World Wide Web, data mining, information foraging, information retrieval, information scent, usability

23 Contributed articles: "In vivo" spam filtering: a challenge problem for KDD Tom Fawcett December 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 2



Full text available: pdf(260.66 KB) Additional Information: full citation, abstract, references

Spam, also known as Unsolicited Commercial Email (UCE), is the bane of email communication. Many data mining researchers have addressed the problem of detecting spam, generally by treating it as a static text classification problem. True *in vivo* spam filtering has characteristics that make it a rich and challenging domain for data mining. Indeed, real-world datasets with these characteristics are typically difficult to acquire and to share. This paper demonstrates some of these characteri ...

**Keywords**: challenge problems, class skew, concept drift, cost-sensitive learning, data streams, imbalanced data, spam, text classification

#### 24 Al update

September 2001 intelligence, Volume 12 Issue 3

Full text available: pdf(129.12 KB)

ighthal(46.75 KB)

Additional Information: full citation, index terms

## 25 An intelligent distributed environment for active learning

Yi Shang, Hongchi Shi, Su-Shing Chen

April 2001 Proceedings of the tenth international conference on World Wide Web

Full text available: pdf(200.31 KB) Additional Information: full citation, references, citings, index terms

Keywords: XML, active learning, multi-agent system, web-based education

## 26 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 1

Full text available: pdf(293.73 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

## 27 Gaussian process classification for segmenting and annotating sequences

Yasemin Altun, Thomas Hofmann, Alexander J. Smola

July 2004 Twenty-first international conference on Machine learning

Full text available: pdf(204.35 KB) Additional Information: full citation, abstract, references

Many real-world classification tasks involve the prediction of multiple, inter-de

Many real-world classification tasks involve the prediction of multiple, inter-dependent class labels. A prototypical case of this sort deals with prediction of a sequence of labels for a sequence of observations. Such problems arise naturally in the context of annotating and segmenting observation sequences. This paper generalizes Gaussian Process classification to predict multiple labels by taking dependencies between neighboring labels into account. Our approach is motivated by the desire to ...

28 Research track papers: Cyclic pattern kernels for predictive graph mining

Tamás Horváth, Thomas Gärtner, Stefan Wrobel

August 2004 Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(291.65 KB) Additional Information: full citation, abstract, references, index terms

With applications in biology, the world-wide web, and several other areas, mining of graph-structured objects has received significant interest recently. One of the major research directions in this field is concerned with predictive data mining in graph databases where each instance is represented by a graph. Some of the proposed approaches for this task rely on the excellent classification performance of support vector machines. To control the computational cost of these approaches, the underl ...

Keywords: computational chemistry, graph mining, kernel methods

29 User-cognizant multidimensional analysis

Sunita Sarawagi

September 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 2-3

Full text available: pdf(248.65 KB) Additional Information: full citation, abstract, index terms

Our goal is to enhance multidimensional database systems with a suite of advanced operators to automate data analysis tasks that are currently handled through manual exploration. In this paper, we present a key component of our system that characterizes the information content of a cell based on a user's prior familiarity with the cube and provides a context-sensitive exploration of the cube. There are three main modules of this component. A Tracker, that continuously tracks the parts of the cub ...

**Keywords:** Maximum entropy, Multidimensional data exploration, OLAP, Personalized mining, User-sensitive interest measure

30 Full papers: Iterative record linkage for cleaning and integration

Indrajit Bhattacharya, Lise Getoor

June 2004 Proceedings of the 9th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery

Full text available: pdf(264.99 KB) Additional Information: full citation, abstract, references, index terms

Record linkage, the problem of determining when two records refer to the same entity, has applications for both data cleaning (deduplication) and for integrating data from multiple sources. Traditional approaches use a similarity measure that compares tuples' attribute values; tuples with similarity scores above a certain threshold are declared to be matches. While this method can perform quite well in many domains, particularly domains where there is not a large amount of noise in the data, in ...

Keywords: clustering, deduplication, distance measure, record linkage

31 Strategic directions in electronic commerce and digital libraries: towards a digital agora Nabil Adam, Yelena Yesha

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4

Full text available: pdf(244.34 KB) Additional Information: full citation, references, citings, index terms

32 <u>Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies</u>



Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 3

Full text available: pdf(281.37 KB) Additional Information: full citation, abstract, citings, index terms

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

33 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

34 Email classification with co-training

Svetlana Kiritchenko, Stan Matwin



Full text available: pdf(228.21 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The main problems in text classification are lack of labeled data, as well as the cost of labeling the unlabeled data. We address these problems by exploring co-training - an algorithm that uses unlabeled data along with a few labeled examples to boost the performance of a classifier. We experiment with co-training on the email domain. Our results show that the performance of co-training depends on the learning algorithm it uses. In particular, Support Vector Machines significantly outperforms N ...

Development and use of a gold-standard data set for subjectivity classifications

Janyce M. Wiebe, Rebecca F. Bruce, Thomas P. O'Hara



June 1999 Proceedings of the 37th conference on Association for Computational Linguistics

Full text available: pdf(744.73 KB) Additional Information: full citation, abstract, references

This paper presents a case study of analyzing and improving intercoder reliability in discourse tagging using statistical techniques. Bias-corrected tags are formulated and successfully used to guide a revision of the coding manual and develop an automatic classifier.

36 Special issue on ICML: Coupled clustering: a method for detecting structural correspondence



Zvika Marx, Ido Dagan, Joachim M. Buhmann, Eli Shamir March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(967.15 KB) Additional Information: full citation, abstract, index terms

This paper proposes a new paradigm and a computational framework for revealing equivalencies (analogies) between sub-structures of distinct composite systems that are

initially represented by unstructured data sets. For this purpose, we introduce and investigate a variant of traditional data clustering, termed *coupled clustering*, which outputs a configuration of corresponding subsets of two such representative sets. We apply our method to synthetic as well as textual data. Its achievement ...

37 <u>Poster session 1: M/ORIS: a medical/operating room interaction system</u> Sébastien Grange, Terrence Fong, Charles Baur



October 2004 Proceedings of the 6th international conference on Multimodal interfaces

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, index terms

We propose an architecture for a real-time multimodal system, which provides non-contact, adaptive user interfacing for Computer-Assisted Surgery (CAS). The system, called M/ORIS (for Medical/Operating Room Interaction System) combines gesture interpretation as an explicit interaction modality with continuous, real-time monitoring of the surgical activity in order to automatically address the surgeon's needs. Such a system will help reduce a surgeon's workload and operation time. This paper f ...

Keywords: CAS, HCI, medical user interfaces, multimodal interaction

38 Learning classifiers: Using urls and table layout for web classification tasks



L. K. Shih, D. R. Karger

May 2004 Proceedings of the 13th international conference on World Wide Web

Full text available: pdf(357.43 KB) Additional Information: full citation, abstract, references, index terms

We propose new features and algorithms for automating Web-page classification tasks such as content recommendation and ad blocking. We show that the automated classification of Web pages can be much improved if, instead of looking at their textual content, we consider each links's URL and the visual placement of those links on a referring page. These features are unusual: rather than being scalar measurements like word counts they are *tree structured*---describing the position of the item ...

Keywords: classification, news recommendation, tree structures, web applications

39 An infrastructure for context-awareness based on first order logic



Anand Ranganathan, Roy H. Campbell

December 2003 Personal and Ubiquitous Computing, Volume 7 Issue 6

Full text available: pdf(319.19 KB) Additional Information: full citation, abstract, index terms

Context simplifies and enriches human-human interaction. However, enhancing human-computer interaction through the use of context remains a difficult task. Applications in pervasive and mobile environments need to be context-aware so that they can adapt themselves to rapidly changing situations. One of the problems is that there is no common, reusable model for context used by these environments. In this paper, we propose a model of context that is based on first order predicate calculus. The fi ...

**Keywords**: Context-awareness, Infrastructure, Logic

40 Image Categorization by Learning and Reasoning with Regions

Yixin Chen, James Z. Wang

August 2004 The Journal of Machine Learning Research, Volume 5

Designing computer programs to automatically categorize images using low-level features is

a challenging research topic in computer vision. In this paper, we present a new learning technique, which extends Multiple-Instance Learning (MIL), and its application to the problem of region-based image categorization. Images are viewed as bags, each of which contains a number of instances corresponding to regions obtained from image segmentation. The standard MIL problem assumes that a bag is labeled p ...

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Relevance scale

41 Poster papers: Integrating feature and instance selection for text classification Dimitris Fragoudis, Dimitris Meretakis, Spiros Likothanassis

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: 🔁 pdf(604.81 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Instance selection and feature selection are two orthogonal methods for reducing the amount and complexity of data. Feature selection aims at the reduction of redundant features in a dataset whereas instance selection aims at the reduction of the number of instances. So far, these two methods have mostly been considered in isolation. In this paper, we present a new algorithm, which we call *FIS* (Feature and Instance Selection) that targets both problems simultaneously in the context of tex ...

**42** Research track posters: Privacy-preserving Bayesian network structure computation on distributed heterogeneous data



Rebecca Wright, Zhiqiang Yang

August 2004 Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(217.22 KB) Additional Information: full citation, abstract, references, index terms

As more and more activities are carried out using computers and computer networks, the amount of potentially sensitive data stored by business, governments, and other parties increases. Different parties may wish to benefit from cooperative use of their data, but privacy regulations and other privacy concerns may prevent the parties from sharing their data. Privacy-preserving data mining provides a solution by creating distributed data mining algorithms in which the underlying data is not reveal ...

Keywords: Bayesian network, distributed databases, privacy-preserving data mining

43 A survey of data mining and knowledge discovery software tools

Michael Goebel, Le Gruenwald

June 1999 ACM SIGKDD Explorations Newsletter, Volume 1 Issue 1

Full text available: pdf(1.28 MB)

Additional Information: full citation, abstract, references

Knowledge discovery in databases is a rapidly growing field, whose development is driven

by strong research interests as well as urgent practical, social, and economical needs. While the last few years knowledge discovery tools have been used mainly in research environments, sophisticated software products are now rapidly emerging. In this paper, we provide an overview of common knowledge discovery tasks and approaches to solve these tasks. We propose a feature classification scheme that can be ...

Keywords: data mining, knowledge discovery in databases, surveys

44 Constraints in data mining: SPARTAN: using constrained models for guaranteed-error
semantic compression
Shivnath Babu, Minos Garofalakis, Rajeev Rastogi
June 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 1
Full text available: pdf(259.12 KB) Additional Information: full citation, abstract, references, citings
While a variety of lossy compression schemes have been developed for certain forms of digital data (e.g., images, audio, video), the area of lossy compression techniques for arbitrary data tables has been left relatively unexplored. Nevertheless, such techniques are clearly motivated by the ever-increasing data collection rates of modern enterprises and the need for effective, guaranteed-quality approximate answers to queries over massive relational data sets. In this paper, we propose SPARTAN
45 A survey on wavelet applications in data mining
Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2
Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings
Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an
46 Statistical methods I: Bayesian analysis of massive datasets via particle filters
Greg Ridgeway, David Madigan July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining Full text available: pdf(896.64 KB) Additional Information: full citation, abstract, references, index terms
Markov Chain Monte Carlo (MCMC) techniques revolutionized statistical practice in the 1990s by providing an essential toolkit for making the rigor and flexibility of Bayesian analysis computationally practical. At the same time the increasing prevalence of massive datasets and the expansion of the field of data mining has created the need to produce statistically sound methods that scale to these large problems. Except for the most trivial examples, current MCMC methods require a complete scan o
47 Industrial/government track: Empirical Bayesian data mining for discovering patterns in post-marketing drug safety  David M. Fram, June S. Almenoff, William DuMouchel
August 2003 Proceedings of the ninth ACM SIGKDD international conference on
Knowledge discovery and data mining Full text available:
EDIT 1931 AVAITABLE TRU DOT(40 1 70 KB) — ADDITIONAL INTORMATION: TUIL CITATION, ADSTRACT, TETERCES, INDEX TERMS

Because of practical limits in characterizing the safety profiles of therapeutic products prior to marketing, manufacturers and regulatory agencies perform post-marketing surveillance

speech user interface

based on the collection of adverse reaction reports ("pharmacovigilance"). The resulting databases, while rich in real-world information, are notoriously difficult to analyze using traditional techniques. Each report may involve multiple medicines, symptoms, and demographic factors, and there is no easily linked inf ...

**Keywords**: association rules, data mining, empirical Bayes methods, pharmacovigilance, post-marketing surveillance

Long papers: smart environments and ubiquitous computing: CASIS: a context-aware
speech interface system
Lee Hoi Leong, Shinsuke Kobayashi, Noboru Koshizuka, Ken Sakamura
January 2005 Proceedings of the 10th international conference on Intelligent user
interfaces
Full text available: 🔁 pdf(530.98 KB) Additional Information: full citation, abstract, references, index terms
In this paper, we propose a robust natural language interface called CASIS for controlling devices in an intelligent environment. CASIS is novel in a sense that it integrates physical context acquired from the sensors embedded in the environment with traditionally used context to reduce the system error rate and disambiguate deictic references and elliptical inputs. The n-best result of the speech recognizer is re-ranked by a score calculated using a Bayesian network consisting of information fr
Keywords: Bayesian network, context-aware computing, natural language processing,

49 Automated assistants to aid humans in understanding team behaviors Taylor Raines, Milind Tambe, Stacy Marsella June 2000 Proceedings of the fourth international conference on Autonomous agents Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

50 Fast detection of communication patterns in distributed executions Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the

University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

51 Data mining: an experimental undergraduate course Youmin Lu, Jennifer Bettine February 2003 Journal of Computing Sciences in Colleges, Volume 18 Issue 3

Additional Information: full citation, abstract, references, index terms Full text available: pdf(28.15 KB)

Data mining is the extraction of implicit, previously unknown, and potentially useful information from data. Advances in information technology and data collection methods have led to the availability of large data sets in commercial enterprises and in a wide variety of scientific and engineering disciplines. We have an unprecedented opportunity to

analyze this data and extract intelligent and useful information. Traditionally, machine learning is a part of the Artificial Intelligence course. Up ... 52 Unsupervised Bayesian visualization of high-dimensional data Petri Kontkanen, Jussi Lahtinen, Petri Myllymäki, Henry Tirri August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining Full text available: pdf(160.91 KB) Additional Information: full citation, references, index terms 53 Technique for automatically correcting words in text Karen Kukich December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4 Additional Information: full citation, abstract, references, citings, index Full text available: pdf(6.23 MB) terms, review Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) contextdependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and applicationspecific spelling cor ... Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statisticallanguage models, word recognition and correction 54 Decomposable modeling in natural language processing Rebecca F. Bruce, Janyce M. Wiebe June 1999 Computational Linquistics, Volume 25 Issue 2 Full text available: pdf(921.88 KB) Additional Information: full citation, abstract, references, citings Publisher Site In this paper, we describe a framework for developing probabilistic classifiers in natural language processing. Our focus is on formulating models that capture the most important interdependencies among features, to avoid overfitting the data while also characterizing the data well. The class of probability models and the associated inference techniques described here were developed in mathematical statistics, and are widely used in artificial intelligence and applied statistics. Our goal is to ... 55 Towards automated synthesis of data mining programs Wray Buntine, Bernd Fischer, Thomas Pressburger August 1999 Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining Full text available: pdf(637.67 KB) Additional Information: full citation, references, index terms <sup>56</sup> Tree induction vs. logistic regression: a learning-curve analysis Claudia Perlich, Foster Provost, Jeffrey S. Simonoff December 2003 The Journal of Machine Learning Research, Volume 4 Full text available: pdf(263.37 KB) Additional Information: full citation, abstract, references, citings, index

#### terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

Position papers on MRDM: Prospects and challenges for multi-relational data mining Pedro Domingos July 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 1
Full text available: 🔂 pdf(397.89 KB) Additional Information: full citation, abstract, references, citings
This short paper argues that multi-relational data mining has a key role to play in the growth of KDD, and briefly surveys some of the main drivers, research problems, and opportunities in this emerging field.
Position papers: Theoretical frameworks for data mining Heikki Mannila January 2000 ACM SIGKDD Explorations Newsletter, Volume 1 Issue 2
Full text available: pdf(341.62 KB) Additional Information: full citation, references, citings
59 <u>Learning Bayesian network classifiers by maximizing conditional likelihood</u> Daniel Grossman, Pedro Domingos July 2004 <b>Twenty-first international conference on Machine learning</b>
Full text available: pdf(187.23 KB) Additional Information: full citation, abstract, references
Bayesian networks are a powerful probabilistic representation, and their use for classification has received considerable attention. However, they tend to perform poorly when learned in the standard way. This is attributable to a mismatch between the objective function used (likelihood or a function thereof) and the goal of classification (maximizing accuracy or conditional likelihood). Unfortunately, the computational cost of optimizing structure and parameters for conditional likelihood is pro
60 Research papers: data mining: Pre-empting user questions through anticipation: data mining FAQ lists Dick Ng'Ambi September 2002 Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology  Full text available: pdf(202.21 KB) Additional Information: full citation, abstract, references, index terms
In this paper we describe the use of data mining techniques on frequently referenced questions (FRQ) to predict the user's 'next' question with the view to pre-empting the question using proactive response. Relationships and patterns hidden in frequently asked questions (FAO) lists, once discovered, can be used to anticipate user questions and enrich

Keywords: associative rule, data mining, dynamic FAQ lists, intelligent frequently asked questions, pre-empting

Questions, has been developed to help predict user questio ...

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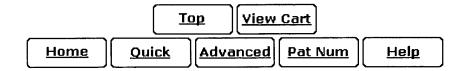


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PAT.

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